

Drug Use Surveillance Measures Through a Public-Access Online Dashboard

CSTE 2021 Annual Conference

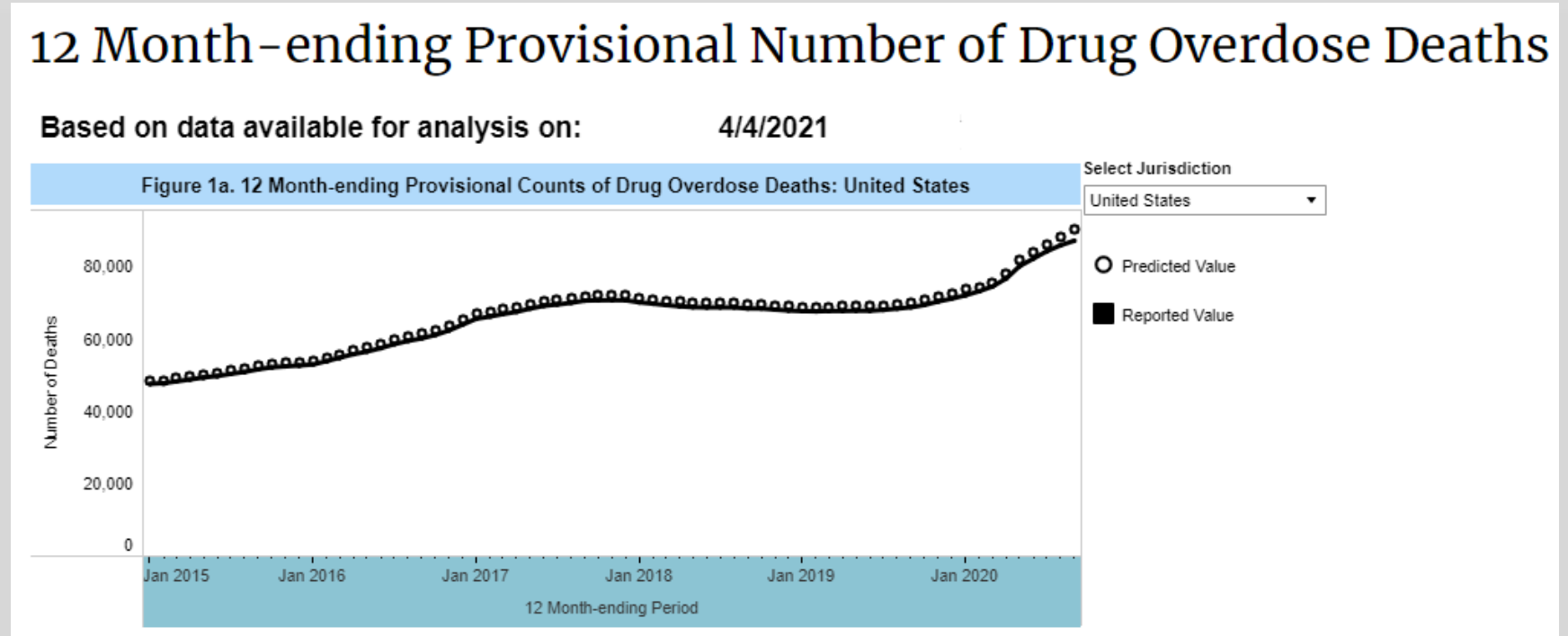
Surveillance / Informatics II

June 15, 2021

*Authors: Karilynn Rockhill, MPH, Alyssa Forber, MS, Anna Rapp-Olsen, MS, Joshua C. Black, PhD,
Janetta Iwanicki, MD*

Background

- The US has experienced a prescription and illicit drug epidemic over the last decade.



Surveillance data has been used to design treatment programs, preventative measures, and implement policy changes, such as prescription drug monitoring programs.

Background

Limitations

- Limited publicly available state-based data
- Lag times in data availability
- Public health officials are faced with limited resources, and collecting or analyzing data can be burdensome

Our Objective

- Provide free access to real-time surveillance data for drug use behaviors at the state level through a simple online dashboard



RADARS[®] System Overview

**ROCKY MOUNTAIN
POISON &
DRUG SAFETY**
Saving lives with answers.™

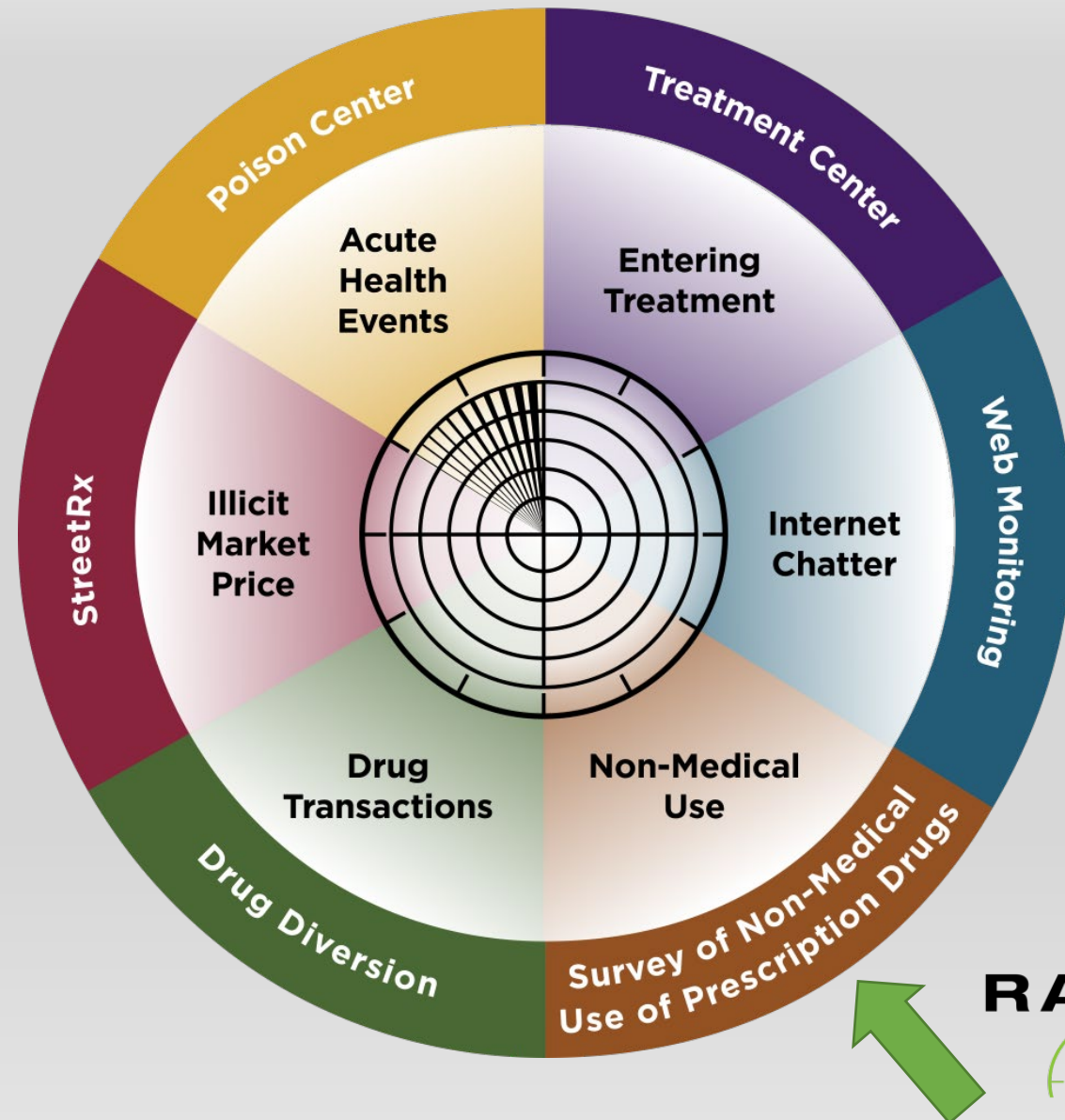


**DENVER
HEALTH.**
— est. 1860 —

RADARS[®]
SYSTEM


RADARS® System Mosaic Surveillance

Researched
Abuse,
Diversion and
Addiction-
Related
Surveillance System



Survey of Non-Medical Use of Prescription Drugs (NMURx) Program: Methods



Objective

- Provide **accurate** and **timely** estimates prescription drug non-medical use (including abuse & misuse) and associated motivations and behaviors among the **general population**



Study Design

- Semi-annual
- Cross-sectional
- Online
- Self-administered
- Confidential

NMURx Program: Methods



Recruitment

- Online survey panels who volunteer to take surveys for compensation



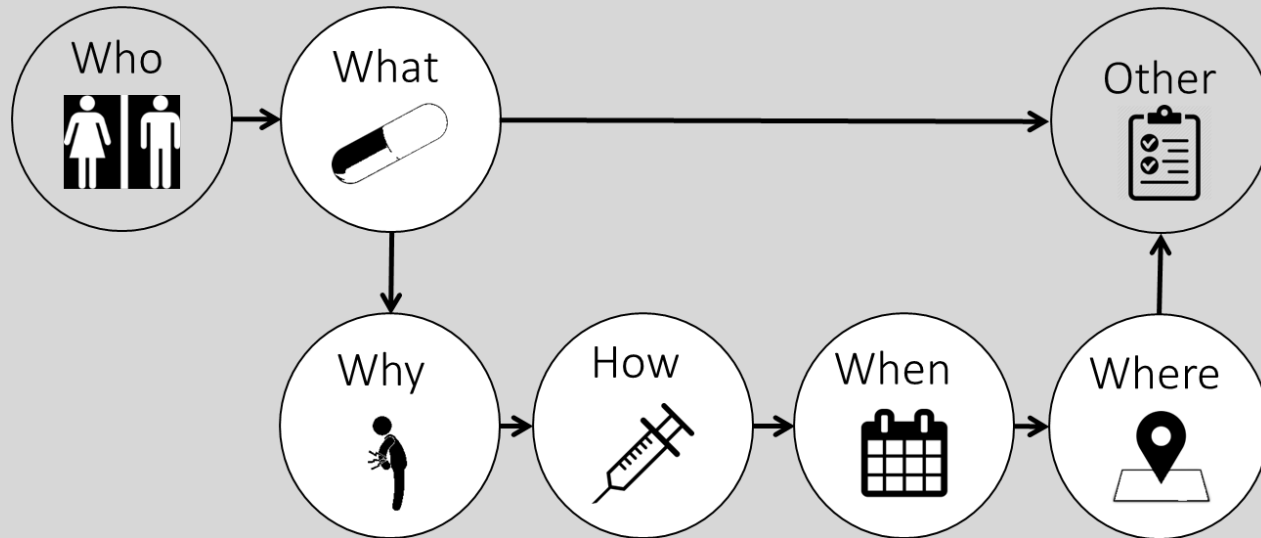
Sampling Methods

- Sample size ~60,000 surveys annually
- Guardrail quota sampling based on sex and region from most recent census data

Generalizability

- Calibration weighting scheme to make national inferences

NMURx Program: Provided Estimates



Main Measure:
Drug Prevalence in
Last 12 Months

Use: Marijuana, Illicit drugs excluding Marijuana

Non-Medical Use: Prescription Pain Relievers, Opioids, Sedatives, Stimulants, GABA-Analogues

“Use in a way not directed by your healthcare provider”

Dashboard 2020 Annual Data

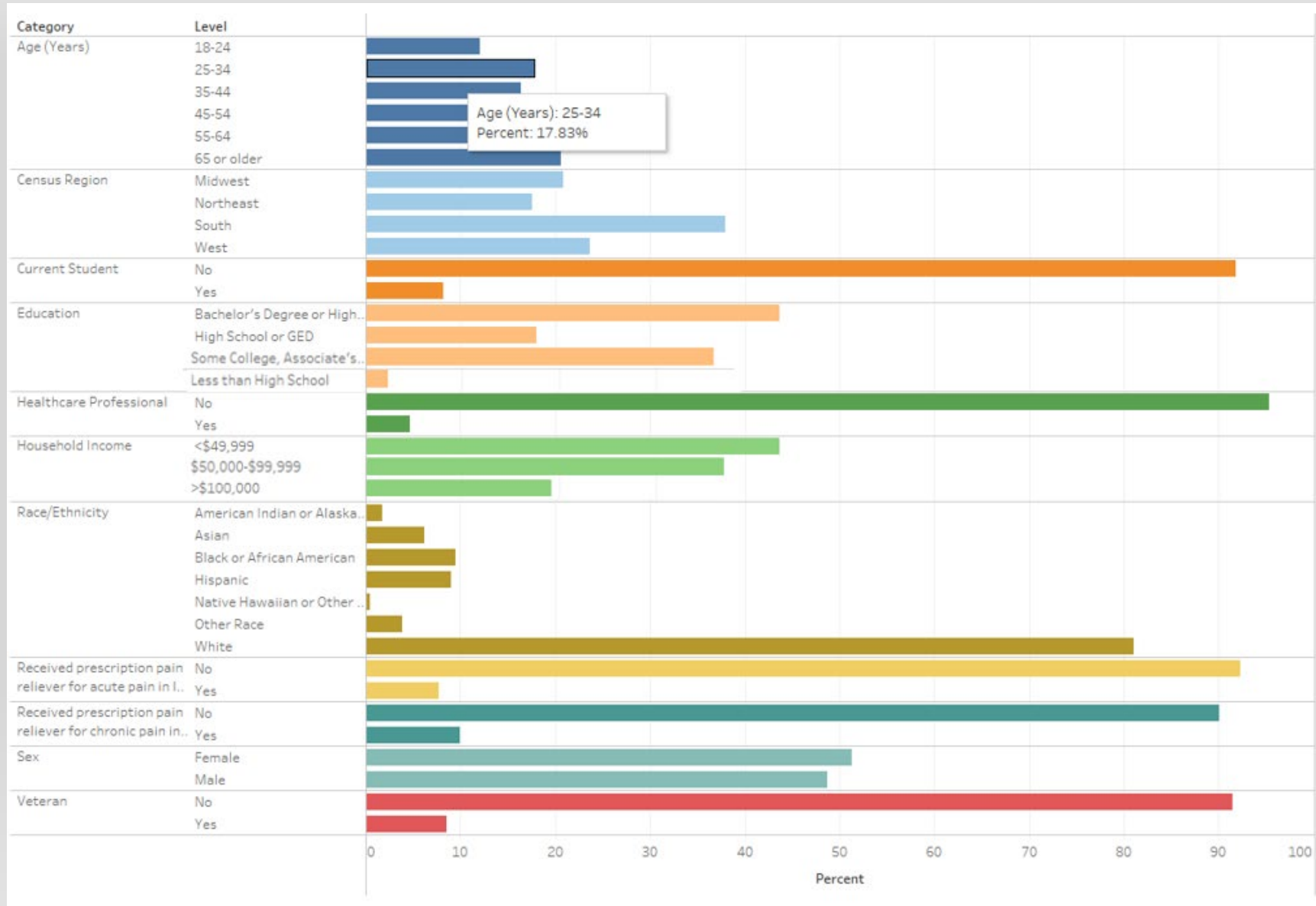
National Data

- Demographics Prevalence
- Drug Use Prevalence
- Drug Use by Select Demographic Subpopulations

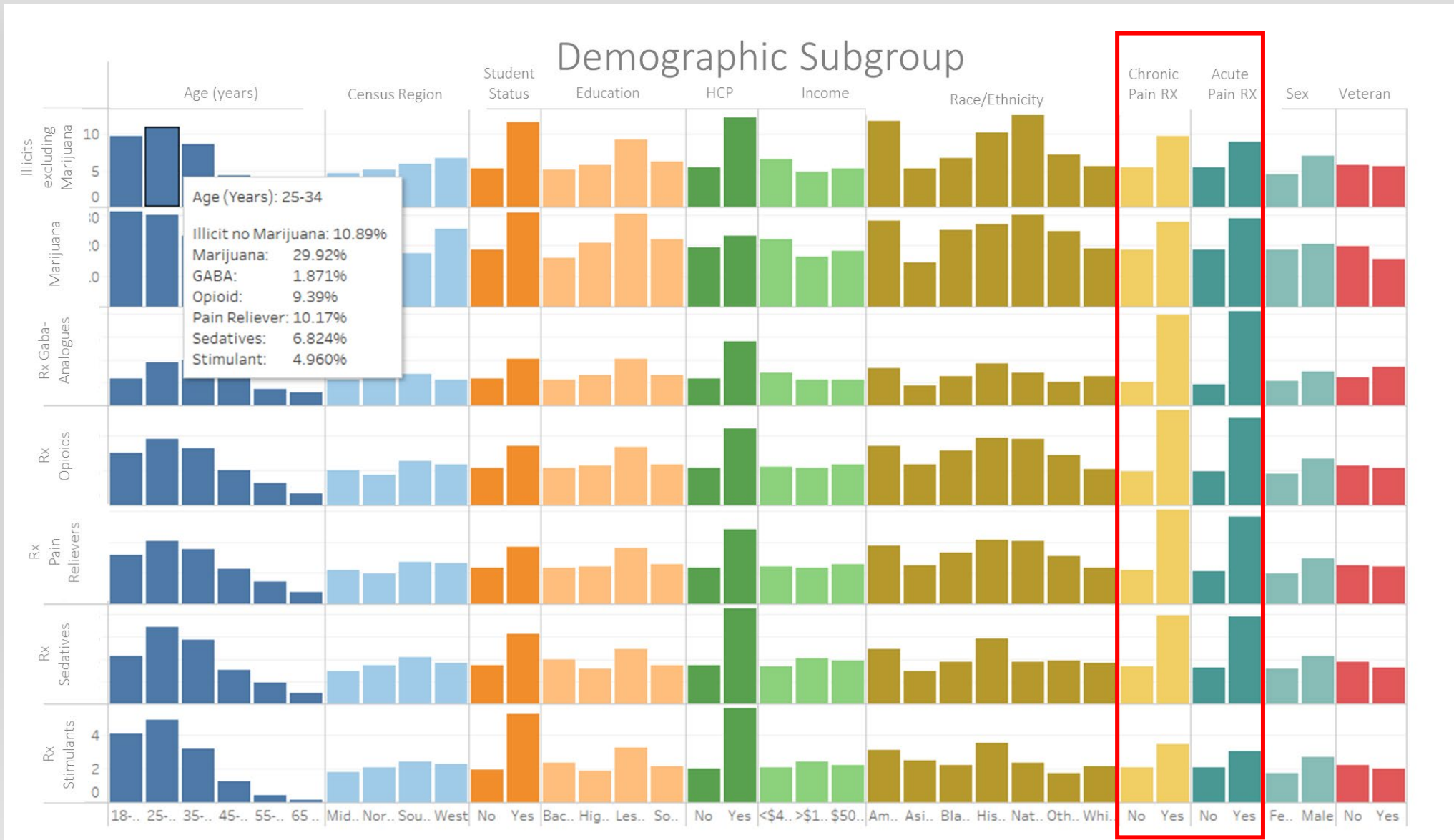
State-based Data

- Drug Use Prevalence
- Drug Use by Select Demographic Subpopulations

National Demographics - 2020

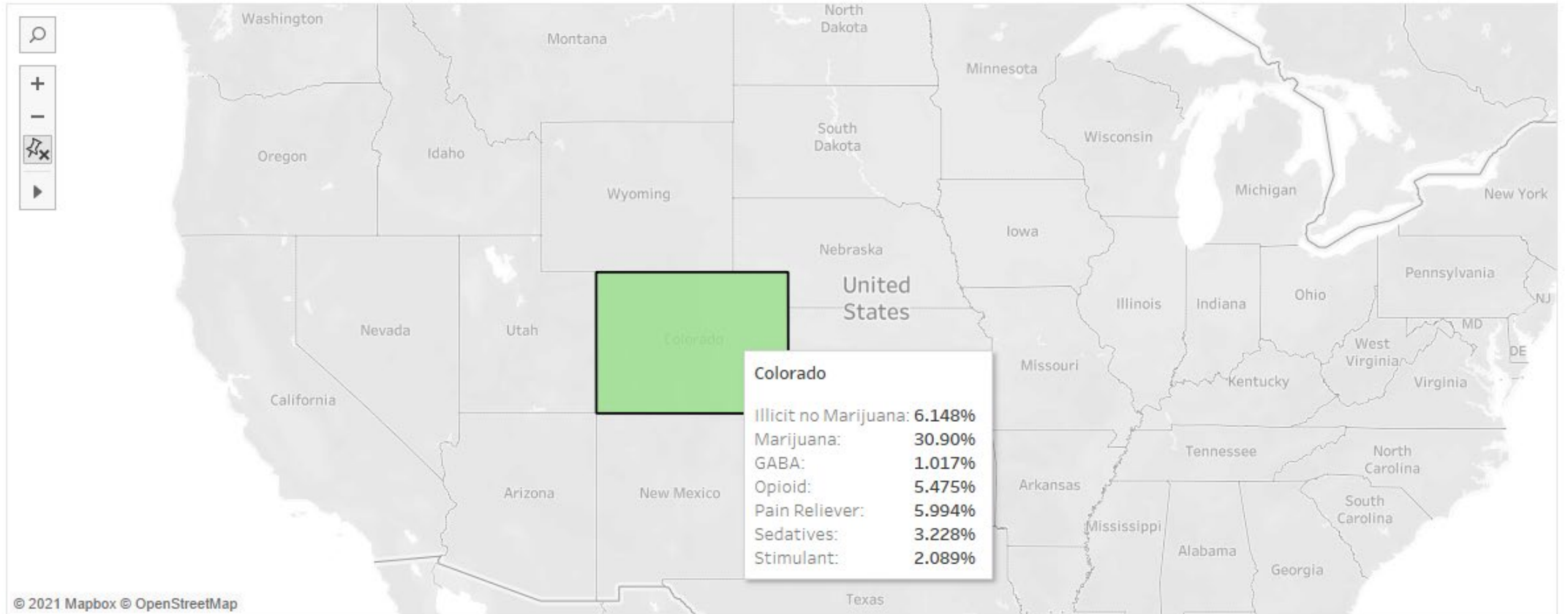


National Drug Use by Subgroup - 2020



Colorado - 2020

2020 State Prevalence

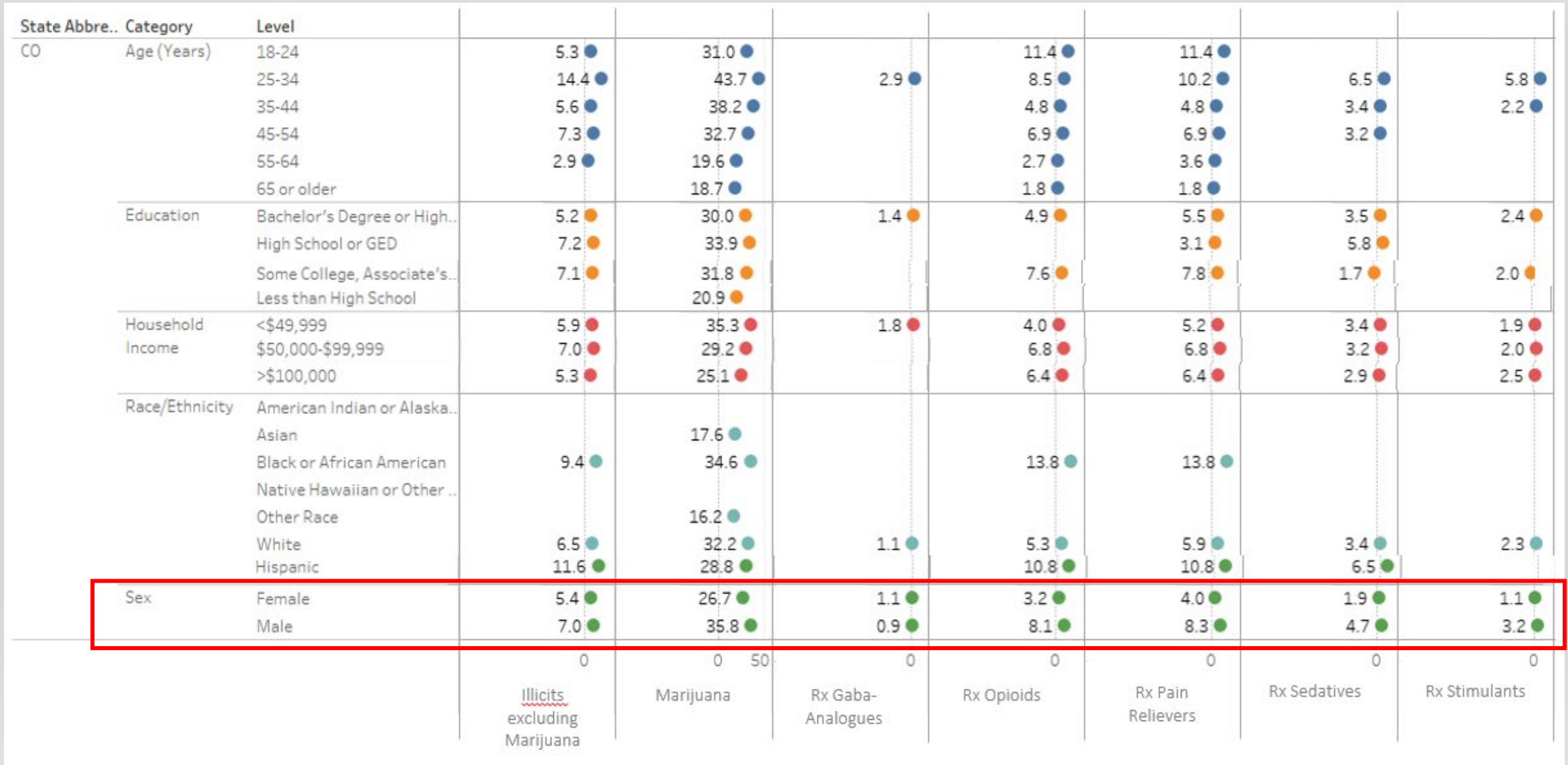


© 2021 Mapbox © OpenStreetMap

State

Colorado

Colorado Demographic Subpopulation- 2020



Dashboard 2020 Annual Data

<https://public.tableau.com/profile/rmpds.research>

Or link through

<https://www.radars.org/>

Acknowledgements

NMURx Program Working Team

- Elise Amioka
- **Kristen Bernal**
- **Alyssa Forber**
- **Tanner Gardiner**
- William Lenahan
- **Luis Malicay**
- **Anna Rapp-Oslen**

RADARS Leadership

- Joshua Black
- Richard Dart
- **Janetta Iwanicki**
- Kate Reynolds
- Geoff Severtson

Denver Health IT Department

Disclosure: The RADARS System is supported by subscriptions from pharmaceutical manufacturers, government and non-government agencies for surveillance, research and reporting services. RADARS System is the property of Denver Health and Hospital Authority, a political subdivision of the State of Colorado. Denver Health retains exclusive ownership of all data, databases and systems. Subscribers do not participate in data collection nor do they have access to the raw data.

Dashboard 2020 Annual Data

<https://public.tableau.com/profile/rmpds.research>

Or link through

<https://www.radars.org/>